

Revised
products] unsaturated fatty acids by [of] the [filamentous fungus] microorganism is enhanced.

In claim 2, at line 2, please delete "filamentous fungus" and insert in place thereof --microorganism--.

In claim 3, at line 2, please delete "filamentous fungus" and insert in place thereof --microorganism--.

In claim 8, at line 3, after "Mortierella" please insert --, subgenus *Mortierella*--.

In claim 9, at line 3, after "Mortierella" please insert --, subgenus *Mortierella*--.

In claim 14, at line 2, please delete "13" and insert in place thereof --8--.

Sub-C5
18. (Amended) The process for production according to claim 17 wherein the processing [effected to] of said defatted soybeans, or non-defatted soy beans is by [a] heat treatment; [an] acid treatment; [an] alkali treatment; [an] enzyme treatment; [a] chemical modification; [or] denaturation, [and/or] renaturation or combination thereof, [using a] by chemical processing, [and/or] physical [treatment] processing, or combination thereof, together with any of the above treatments; [the] removal of [some] a portion of the components with water solvents, [and/or an] organic [solvent] solvents, or combination thereof; [the] removal of [some] a portion of the components by filtration, [and/or] centrifugation or combination thereof; freezing; [disrupting] crushing; drying; [and/or] sifting, or combinations thereof.

Sub C6 21. (Amended) A culture medium for culturing a microorganism belonging to the subgenus *Mortierella* in which the concentrations of phosphate ions, potassium ions, sodium ions, magnesium ions, and calcium ions are in the range of 5 to 60 mM, 5 to 60 mM, 2 to 50 mM, 0.5 to 9 mM, and 0.5 to 12 mM, respectively, and wherein said culture medium comprises a nitrogen source and a carbon source.

B3 22. (Amended) A culture medium for culturing a microorganism belonging to the subgenus *Mortierella* in which the concentrations of phosphate ions, potassium ions, sodium ions, magnesium ions, and calcium ions are in the range of 10 to 45 mM, 10 to 45 mM, 5 to 40 mM, 1 to 6 mM, and 1 to 9 mM, respectively, and wherein said culture medium comprises a nitrogen source and a carbon source.

Please add the following new claims:

Sub C7 B4 23. The process for production according to claim 9 wherein said phosphate ions are provided by at least one salt selected from the group consisting of dipotassium hydrogen phosphate, potassium dihydrogen phosph~~ate~~^{ate}, disodium hydrogen phosphate and sodium dihydrogen phosphate; said potassium ions are provided by at least one salt selected from the group consisting of dipotassium hydrogen phosphate, potassium dihydrogen phosphate and potassium chloride; said sodium ions are provided by at least one salt selected from the group consisting of disodium hydrogen phosphate, sodium dihydrogen phosphate, sodium chloride and sodium sulfate; said magnesium ions are

provided by magnesium chloride and/or magnesium sulfate; and said calcium ions are provided by calcium chloride and/or calcium carbonate.

See C9 cont
29. The process for production according to claim 9, wherein said ions are provided by a combination of potassium dihydrogen phosphate (KH_2PO_4), anhydrous sodium sulfate (Na_2SO_4), magnesium chloride hexahydrate ($\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$) and calcium chloride dihydrate ($\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$).

B4 cont'd
30. The process for production according to claim 9, wherein said unsaturated fatty acids are arachidonic acid, γ -linolenic acid, dihomo- γ -linolenic acid, Mead acid and/or eicosapentaenoic acid.

31. The process for production according to claim 9, wherein said microorganism belonging to subgenus *Mortierella* is *Mortierella alpina*, *Mortierella elongata*, *Mortierella exigua* or *Mortierella hygrophila*.

32. The process for production according to claim 9 wherein a nitrogen source derived from soy beans is further added to said culture medium.

See C9
33. The process for production according to claim 32, wherein the nitrogen source derived from soy beans has a nitrogen content of at least 2% wt with respect to the total components except for water.

34. The process for production according to claim 32, wherein said nitrogen source derived from soy beans is at least one selected from the group consisting of defatted soy beans, non-defatted soy beans, and the processed products thereof.

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su C10 35. The process for production according to claim 34, wherein the processing of said defatted soy beans, or non-defatted soy beans, is by heat treatment; acid treatment; alkali treatment; enzyme treatment; chemical modification; denaturation, renaturation or combination thereof, by chemical processing, physical processing or combination thereof, together with any of the above treatments; removal of a portion of the components with water solvents, organic solvents, or combinations thereof; removal of a portion of the components by filtration, centrifugation, or combinations thereof; freezing; crushing; drying; sifting, or combinations thereof.

36. The process for production according to claim 32 wherein said nitrogen source derived from soy beans is defatted soy beans that were at least subjected to a heat treatment.

37. The process for production according to claim 32, wherein yeast extract is further added to said culture medium.

38. The culture medium for culturing a microorganism according to claim 22, wherein said microorganism is a filamentous fungus.--

Add C11